

Use Attainability Analysis

for

WBID 1715 Rock Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

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WATER PROTECTION PROGRAM

| | |
|------------------------------------------------|---------------------|
| Water Body Name: (from USGS 7.5' quad) | Rock Creek |
| 8-digit HUC: | 07140101 |
| Missouri WBID #: | 1715 |
| County: | Jackson |
| Upstream Legal Description: | |
| Downstream Legal Description: | |
| Upstream Coordinates: (UGS 84, ddd.ddddd) | |
| Downstream Coordinates: (UGS 84, ddd.ddddd) | 90.43706 / 38.39905 |
| Discharger Facility Name(s): | |
| Discharger Permit Number(s): | |
| Number of Sites Evaluated: | 3 |
| Name of Surveyor and Telephone Number: | Mary Clark |
| Organization: | MO NR |
| Position: | ES III |

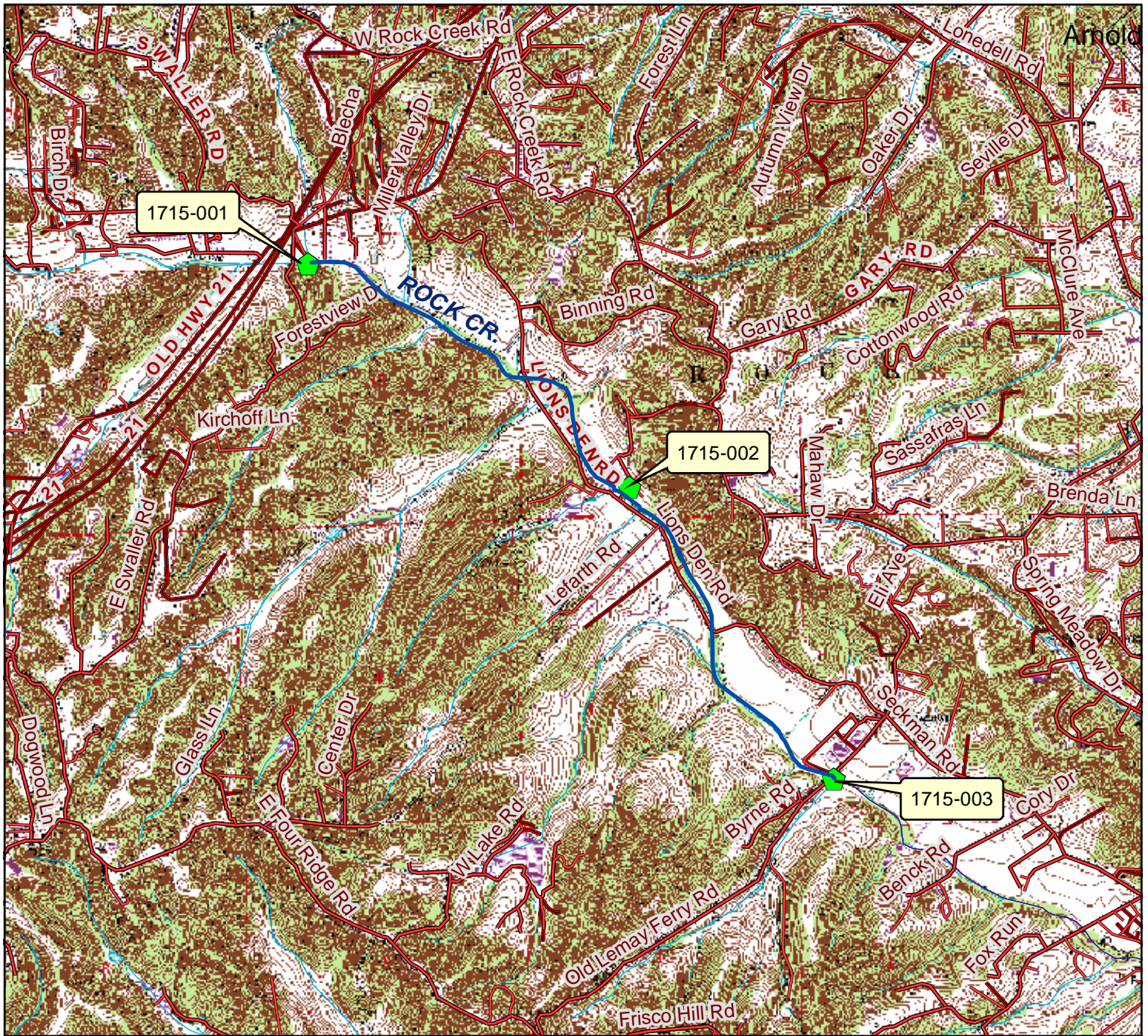
I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.




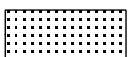
Signed: Mary Clark

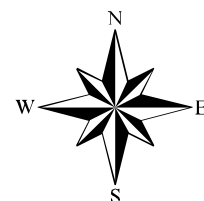
Date: 7-9-05

Rock Creek (C) #1715 Jefferson County

HUC 8 - 07140101



-  LOCAL ROADS
-  Classified Waterbodies
-  Roads
-  MUNICIPAL



0 0.5 1 2 Miles

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|-----------------------------------------|-------------------------------------|--------|
| Missouri WBID #: 1715-001 | Site Location Description: | |
| Site GPS Coordinates: 90.47192/38.42667 | E. Swallow Bridge over Rocker | |
| Date & Time: 7-9-05 7:20 | Facility Name: | |
| Personnel: Mary Clark | Permit Number: | |
| Current Weather Conditions: sunny | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 466 | Downstream: 467 | Other: |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Surrounding Conditions*:

(Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--------------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input checked="" type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------------|------------------------------------------|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: hard new Hwy 21 in 100 ft. from E. Swallow Bridge | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|--------------------------------------------|---------------------------------------------------------------------|-----------------------------------|------------------------------|------------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>10</u> | Length (ft): <u>10</u> | Avg. Depth (ft): <u>0.15</u> | Max. Depth (ft): <u>0.25</u> |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>20</u> | Length (ft): <u>20</u> | Avg. Depth (ft): <u>0.75</u> | Max. Depth (ft): <u>0.9</u> |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>4</u> | Length (ft): <u>10</u> | Avg. Depth (ft): <u>1.0</u> | Max. Depth (ft): <u>1.5</u> |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Downstream View Physical Dimensions:

| | | | | |
|--------------------------------------------|---------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>3</u> | Length (ft): <u>18</u> | Avg. Depth (ft): <u>0.15</u> | Max. Depth (ft): <u>0.2</u> |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>15</u> | Length (ft): <u>60</u> | Avg. Depth (ft): <u>0.4</u> | Max. Depth (ft): <u>0.6</u> |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>12</u> | Length (ft): <u>25</u> | Avg. Depth (ft): <u>2.0</u> | Max. Depth (ft): <u>≤ 3</u> |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|--------------------|--------------------|------------------|--------|---------------------|-----------|
| <u>40</u> % Cobble | <u>40</u> % Gravel | <u>15</u> % Sand | % Silt | <u>5</u> % Mud/Clay | % Bedrock |
|--------------------|--------------------|------------------|--------|---------------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

significant algae - filamentous ≥ 50% covered

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|-------------------------------------------|---------------------------------|----------------------------------------------------|------------------------------------------|------------------------------------------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input checked="" type="checkbox"/> Other: <u>floating algae</u> |

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. estimated based on my observation.

Signed: Mary Clark Date: 7-9-05

Organization: MONK Position: ESTM

1715_001 DS



1715_001 US



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|------------------------------------------------|-------------------------------------------|-----------------|
| Missouri WBID #: <u>1715-002</u> | Site Location Description: | |
| Site GPS Coordinates: <u>90.45053/38.41455</u> | <u>Rock Cr. Garden 1 lane bridge over</u> | |
| Date & Time: <u>7-9-05 8:05</u> | Facility Name: | <u>Rock Cr.</u> |
| Personnel: <u>Mary Clark</u> | Permit Number: | |
| Current Weather Conditions: <u>sunny</u> | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: <u>468</u> | Downstream: <u>469</u> | Other: |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------------------------|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Good sized fish

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--------------------------------------------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: <u>House near creek +</u> | |

Evidence of Human Use*:

| | | | | |
|----------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: <u>easy access, gravelled rd. to creek</u> | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|------------------------------------------|---------------------------------------------------------------------|-----------------------------------|------------------------------|------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>12</u> | Length (ft): <u>50</u> | Avg. Depth (ft): <u>0.33</u> | Max. Depth (ft): <u>0.75</u> |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>8</u> | Length (ft): <u>20</u> | Avg. Depth (ft): <u>2.0</u> | Max. Depth (ft): <u>2.5</u> |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Downstream View Physical Dimensions:

| | | | | |
|--------------------------------------------|---------------------------------------------------------------------|-----------------------------------|------------------------------|------------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>2</u> | Length (ft): <u>25</u> | Avg. Depth (ft): <u>0.1</u> | Max. Depth (ft): <u>0.15</u> |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>10</u> | Length (ft): <u>50</u> | Avg. Depth (ft): <u>0.33</u> | Max. Depth (ft): <u>0.75</u> |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|--------------------|--------------------|------------------|--------|------------|-----------|
| <u>20</u> % Cobble | <u>45</u> % Gravel | <u>25</u> % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|------------------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

| |
|---------------------------------------------|
| <u>algae cover > 50% - some Salvinia</u> |
|---------------------------------------------|

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|-------------------------------------------|---------------------------------|----------------------------------------------------|------------------------------------------|---------------------------------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input checked="" type="checkbox"/> Other: <u>algae</u> |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. estimated based on my observation.

Signed: Mary Clark Date: 7-9-05

Organization: MONK Position: ESTH

1715_002 DS



1715_002 US



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|-----------------------------------------|---------------------------------------------------------------|--------------------------|
| Missouri WBID #: 1715-083 | Site Location Description: old Lemay Ferry rd over Rock Creek | |
| Site GPS Coordinates: 90.43266/38.39705 | | |
| Date & Time: 7-9-05 8:30 | Facility Name: | |
| Personnel: Mary Clark | Permit Number: | |
| Current Weather Conditions: sunny | Weather Conditions for Past 7 days: Dry | |
| Photo Ids: Upstream: 470 | Downstream: 471 | Other: 472 - 55 gal drum |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input checked="" type="checkbox"/> Other: dump box |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Surrounding Conditions* (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|-------------------------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input checked="" type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use* **rusty 55 gallon drum in creek*

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: mowed all the way to creek on school dist. prop. landscape cloth threatening a bank at Ball Park | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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crack has recently
dried up section -
algae still green on
dry rocks

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|--------------------------------------------|---------------------------------------------------------------------|-------------------------|-----------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>5</u> | Length (ft): <u>14</u> | Avg. Depth (ft): <u>0.1</u> | Max. Depth (ft): <u>0.2</u> |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>10</u> | Length (ft): <u>150</u> | Avg. Depth (ft): <u>0.4</u> | Max. Depth (ft): <u>0.5</u> |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Estimated (ft ³ /sec): | |

Downstream View Physical Dimensions:

| | | | | |
|------------------------------------------|---------------------------------------------------------------------|------------------------|-----------------------------------|-------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>10</u> | Length (ft): <u>30</u> | Avg. Depth (ft): <u>1.5</u> | Max. Depth (ft): <u>≤ 3.0</u> |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>10</u> | Length (ft): <u>60</u> | Avg. Depth (ft): <u>0.15</u> | Max. Depth (ft): <u>0.33</u> |
| <input type="checkbox"/> Flow Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Estimated (ft ³ /sec): | |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|--------------------|--------------------|------------------|--------|----------------------|-----------|
| <u>20</u> % Cobble | <u>40</u> % Gravel | <u>20</u> % Sand | % Silt | <u>20</u> % Mud/Clay | % Bedrock |
|--------------------|--------------------|------------------|--------|----------------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

| |
|--------------------------------------------|
| <u>algae 50% covered; some filamentous</u> |
|--------------------------------------------|

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|-------------------------------------------|---------------------------------|----------------------------------------------------|------------------------------------------|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. estimated based on my observations

Signed: Mary Clark Date: 7-9-05

Organization: MONK Position: EST

1715_003 DS



1715_003 US



1715_003

